

Title (en)
MAGNETIC PARTICLE BASED BIOSENSOR

Title (de)
AUF MAGNETISCHEN TEILCHEN BASIERENDER BIOSENSOR

Title (fr)
BIODÉTECTEUR BASÉ SUR DES PARTICULES MAGNÉTIQUES

Publication
EP 2625504 A4 20140521 (EN)

Application
EP 11831722 A 20111007

Priority
• US 41518310 P 20101118
• US 39080910 P 20101007
• US 2011055467 W 20111007

Abstract (en)
[origin: WO2012048288A1] A biosensor system and method of its use for detecting particles on the surface of an integrated circuit is disclosed. The system can include a light source and a plurality of optical sensors formed on an integrated circuit. The particles can be positioned the surface of the integrated circuit whereby the particles can cast a shadow or shadows that reduces the amount of light transmitted from the light source to the optical sensors. The surface of the integrated circuit can include one or more optical sensing areas whereby the presence of one or more particles may significantly or measurably reduce the amount of light incident on one or more optical sensor.

IPC 8 full level
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CPC (source: EP US)
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G01N 33/54326 (2013.01 - EP US); **G01N 33/54366** (2013.01 - EP US); **G01V 8/20** (2013.01 - US); **G01N 21/274** (2013.01 - EP US);
G01N 2201/062 (2013.01 - US)

Citation (search report)
• [IP] WO 2011045570 A2 20110421 - CENTRE NAT RECH SCIENT [FR], et al
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• See references of WO 2012048288A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2012048288 A1 20120412; CN 103238055 A 20130807; EP 2625504 A1 20130814; EP 2625504 A4 20140521; EP 2625504 B1 20210217; JP 2013543593 A 20131205; JP 6150171 B2 20170621; US 2013230913 A1 20130905; US 2017108497 A1 20170420; US 2018031548 A1 20180201; US 9568415 B2 20170214

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